ADAIR COUNTY

(Adair County Water Service Area Map)

- Estimated 1999 population of 16,200--70% on public water
- Estimated 2020 population of 17,800--100% on public water
- 375 miles of water lines, with plans for 225 additional miles
- Estimated funding needs for public water 2000-2005--$3,966,000
- Estimated funding needs for public water 2006-2020--$5,892,000

Adair County had an estimated population of 16,243 (6,752 households) in 1999 with a projected population of 17,753 (7,827 households) in 2020. Public water is provided to about 70 percent of the county's residents. In areas of the county not served by public water, about 75 percent of the households rely on private domestic wells and 25 percent of the households rely on other sources. Virtually 100 percent of the count will be provided public water service through new line extensions in 2000-2020.

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in $1000	in $1000	in $1000	in $1000	in $1000	in $1000
ADAIR								-
Adair Co. W D	76.3	1,088	3,966					3,966
Total	76.3	1,088	3,966					3,966

Estimated Costs - Proposed Projects, 2006-2020

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in $1000	in $1000	in $1000	in $1000	in $1000	in $1000
ADAIR								-
Adair Co. W/D	147.3	1,905	5,892					5,892
Total	147.3	1,905	5,892					5,892

PUBLIC WATER SYSTEMS

Adair County has 2 public water systems, both water districts: Columbia Utilities Commission and Adair County Water District. A small area of the southeastern part of the county is also served by the Jamestown Utilities Commission.

WATER SERVICE AREAS
ADAIR COUNTY
Kentucky

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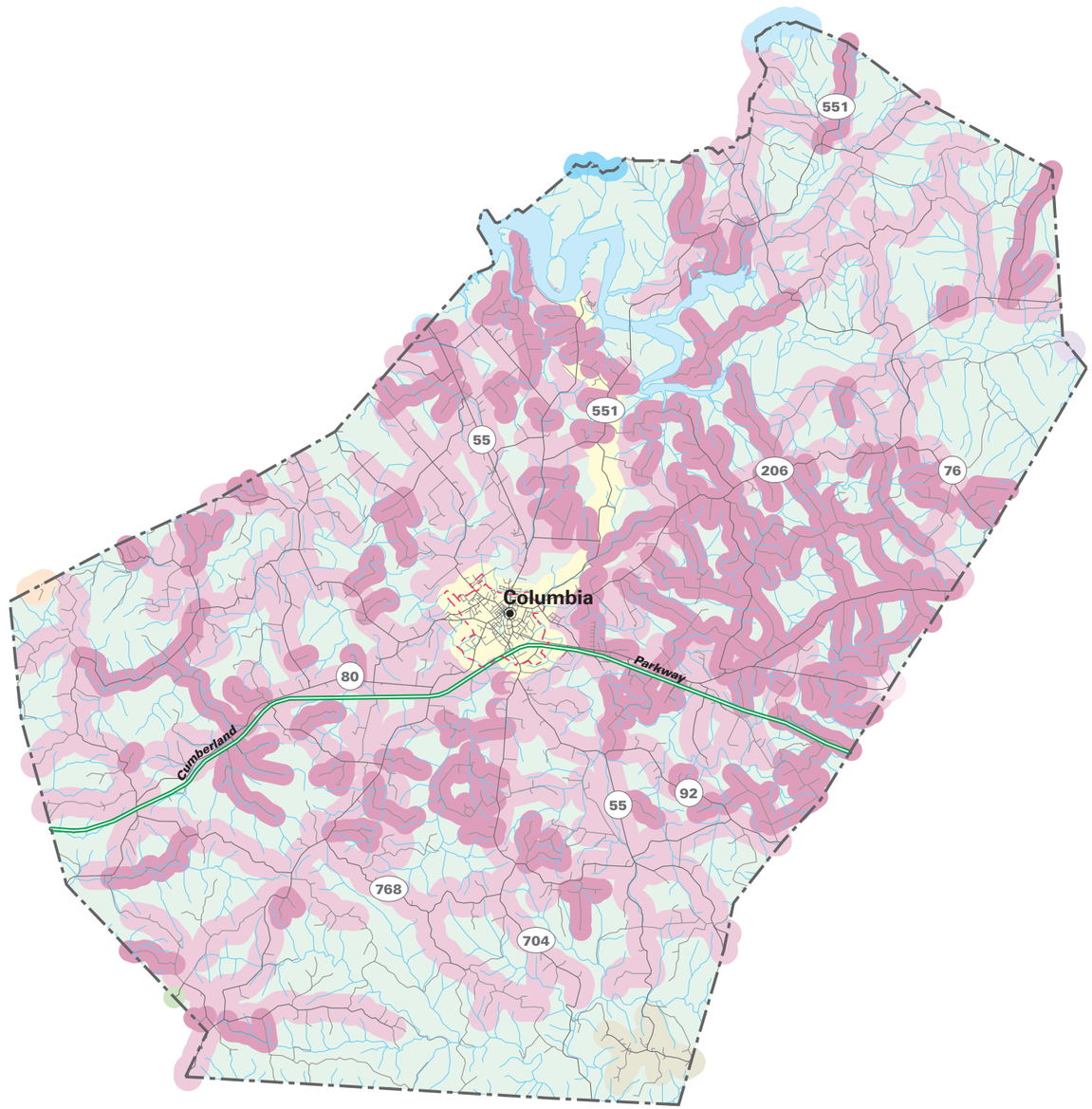

WATER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	
		RUSSELL SPRINGS WATER WORKS
		JAMESTOWN UTILITIES COMMISSION
		GREEN TAYLOR WATER DISTRICT
		EDMONTON WATER WORKS
		EAST CASEY COUNTY WATER DISTRICT
		COLUMBIA UTILITIES COMMISSION
		CAMPBELLSVILLE WATER COMPANY
		ADAIR COUNTY WATER DISTRICT

COLUMBIA UTILITIES COMMISSION

PWSID: 0010082
System Type: ..... COMMUNITY
Owner Type: ..... WATER DISTRICT
Surface Source: ..... RUSSELL CREEK
Purchase Source:
Well Source:
Sells Water to: ..... ADAIR COUNTY WATER DISTRICT
Treatment Plant Capacity (MGD): 2.00
Percent Daily Average Production: 55.00
Total Tank Storage Capacity (gallons): 0.00
Total Service Connections: 1,559.00
Number of Employees: 17.00
Treatment Operator Class: 2D
Distribution Operator Class: 3A
Customer Rate for 1,000 Gallons: ..... Not available
O/M costs 1997: ..... Not available
O/M costs per Service Connection: ..... Not available
Net Revenue 1997: ..... Not available
Total Water Produced 1997 (gallons): ..... Not available
Water Sold 1997 (gallons): ..... Not available
Unaccounted-for Water 1997 (%): ..... Not available

ADAIR COUNTY WATER DISTRICT

PWSID: 0010702
System Type: ..... COMMUNITY
Owner Type: ..... WATER DISTRICT
Surface Source:
Purchase Source: ..... RUSSELL SPRINGS WATER WORKS
Well Source:
Sells Water to:
Treatment Plant Capacity (MGD): 0.00
Percent Daily Average Production: 0.00
Total Tank Storage Capacity (gallons): 139,000.00
Total Service Connections: 3,590.00
Number of Employees: 9.00
Treatment Operator Class: 2D
Distribution Operator Class:
Customer Rate for 1,000 Gallons: 4.90
O/M costs 1997: 802,698.00
O/M costs per Service Connection: 223.97
Net Revenue 1997: 72,986.00
Total Water Produced 1997 (gallons): 0.00
Water Sold 1997 (gallons): 188,130,300.00
Unaccounted-for Water 1997 (%): 8.91

PRIVATE DOMESTIC SYSTEMS

About 4,800 people in Adair County rely on private domestic water supplies: 3,600 on wells and 1,200 on other sources.

About three-forth of the wells drilled in the uplands of central Adair County yield enough water for a domestic supply with some yields greater than 50 gpm to wells from large solution openings in karst areas. In the rest of the county very few wells yield enough water for a domestic supply except in a few lowland areas bordering streams where yields are sufficient for a few wells to meet the supply needs for domestic use.

Numerous small springs and seeps are found throughout the county. Most discharge from small solution openings and joints in limestone or siltstone and are supported by shale layers. Flows are as much as 100 gpm, but most have minimum flows of less than 1 gpm.